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BIBLIOGRAPHY OF POTATO DISEASES THROUGH 1945:

With Common and Scientific Names

Miscellaneous Publication No. 1162

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PREFACE

The potato is still our most important vegetable crop. A review of the literature on a potato disease and the pathogen causing it may lead to different and, possibly, better methods for its control. No extensive bibliography of potato diseases presently is available.

In 1931, E. L. LeClerg began recording references to potato diseases for his personal use; he turned his card index over to the U.S. Department of Agriculture when he was assigned to another project. Muriel J. O'Brien started the task of compiling the bibliography in 1958. Many references cited in it are no longer readily available.

Research workers, staff members of institutions with limited library facilities, students, libraries, and extension workers will find this bibliography a valuable source material for potato diseases reported to 1945; it will save researchers many hours in checking the literature. To delay publication of this material until all later reports could be included in this bibliography would keep valuable information out of circulation.

Fungus names and the names of bacteria and viruses have been corrected to show both old names and present synonomy (1966). Since 1942, reports on potato diseases are cited in the "Bibliography of Agriculture," issued by the National Agricultural Library, U.S. Department of Agriculture.

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BIBLIOGRAPHY OF POTATO DISEASES THROUGH 1945:

With Common and Scientific Names

Compiled by MURIEL J. O'BRIEN, *Research Plant Pathologist,* and E. L. LECLERG, *formerly, Director, Biometrical Services Staff, now retired, Crops Research Division, Agricultural Research Service*

This bibliography of literature references was compiled from the journals that publish papers on subjects in plant pathology, plant breeding, and mycology and from references listed in horticultural- and disease-abstracting services. The basis for many of the references given is a card file index developed principally by E. L. LeClerg when he worked on potato diseases. Dr. LeClerg gave this index to the Potato Investigations Unit, Agricultural Research Service, U.S. Department of Agriculture, as a basis for compiling and publishing this enlarged bibliography of potato diseases.

Research papers that were available through 1945 and that have contributed to the knowledge of potato diseases are listed here. Some important contributions may have been overlooked, for papers, particularly those in a series, could not always be located or identified properly. Many papers included might not be considered research papers. However, these papers, written in the early days of potato pathological investigations, contributed much to the history of disease development and were often a record of the first appearance of a disease. Sometimes they reported early developments in control methods and products. These early papers often were the only available record of disease identification or relationship. Thus, some papers may appear to the reader as being of historical value only and of questionable use today. Many of these early papers, however, still are unsurpassed classics. The principal approach used in this bibliography, therefore, has been to prepare a handy guide to all pertinent material published on potato diseases through 1945. Hopefully, key references under any specific disease or disorder will lead the reader to the more obscure and possibly relevant papers for his particular interest.

This bibliography is in four parts, plus an appendix.

Part 1 is the SUBJECT INDEX. This is an annotated index with references to the numbered citations. Fungus, virus, bacterial, and nematological synonomy have been indicated to the best of the compilers' abilities and are cross-referenced throughout this part.

Part 2 is the LITERATURE CITATIONS, arranged alphabetically by author and numbered consecutively. The citations are listed in original-language titles where the Roman alphabet is used, together with the English translation of the title set in brackets. In cases where papers are published in the Cyrillic or other alphabets, only the English translation to the title is provided and this too is set in brackets. Following the LITERATURE CITATIONS is Part 3, a list of GENERAL REFERENCES that includes books, compilations, and general papers concerning potato diseases.

Part 4 is the AUTHOR INDEX, with junior author references in parentheses.

The APPENDIX contains NAMES OF DISEASES AND OTHER DISORDERS OF POTATOES and is divided into five lists as follows: Fungus and Bacterial Diseases, arranged according to common name, type of injury, or both; Injurious Nematodes; Nonparasitic and Miscellaneous Disorders; Foreign-Language Common Names, along with either the scientific or the English common name; and Virus Index, With Synonomy.

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  (403-406, 874)
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  (955, 1214, 2441–2444)
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Raĭllo, A. I., 1808, 1809
Rainio, A. J., 1810
Raĭskiĭ, D. M., 1811
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Rankin, W. H., 1828
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Rasmussen, L., 1830
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Remy, T., 1868–1870
Ressler, I. L., (697)
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Rich, A. E., 1873, (756)
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Richards, M. C., 1879–1881
Richards, O. W., 1882
Riede, W., 1883
Riedl, W. A., 1884, (2258, 2259)
Rieger, H., 1885
Riehm, E., 1886–1888; Riehm, 1888
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Roberts, F. M., (2429)
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Robertson, I. M., 1909
Robinson, C. H., (814–816)
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Robison, U. M., 1910
Rochlin, E., (351)
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Röder, K., 1912
Rodriguez, L., 1913
Roehl, L. M., 1914
Rogers, F. E., (454)
Rogers, J. T., (1342)
Rohde, G., 1915
Rohmer, G., (2126)
Rokhlina, E. IA. (Rochlina, E. J.), 1916, 1917
Roland, G., (2373)
Rolfs, F. M., 1918, 1919
Rosa, J. T., Jr., 1920
Rose, D. H., 1921
Rose, R. C., 1922
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Ross, A. F., 1929, (2353)
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Rothmaler, B., 1933
Rouppert, C., 1934
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Roze, E., 1936
Rozendaal, A., 1937
Rozhalin, L. B., 1938
Ruehle, G. D., 1939–1942
Ruhland, W., 1943, 1944
Rumsey, W. E., 1945
Runov, E. V., (995)
Ruschmann, G., 1946
Russell, H. L., 1947

Rybakova, S., 1948
Ryland, J. P., (711)

Sahr, C. A., 1949, 1950
Sajó, C., 1951
Salaman, R. N., 1952–1971
Salmon, E. S., 1972-1979
Salunskaia, N., 1980
Samson, R. W., 1981, 1982
Samuel, G., 1983-1988
Sandsten, E. P., 1989–1991
Sanford, G. B., 1992-2007
Sansome, F., 2008
Sardiña, J. R., 2009
Sarejanni, J. A., 2010
Savile, D. B. O., 2011, 2012, (1803)
Savulescu, T., 2013
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Schander, R., 2030–2038
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Schlumberger, O., 2047–2074, (87, 88, 2082, 2510)
Schmid, A., 2075
Schmidt, A. M., (1339)
Schmidt, E., 2076–2078
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Schomer, H. A., (1921)
Schreven, D. A., van, 2083–2085, (see also under Van Schreven, D. A.)
Schribaux, V., 2086
Schroeder, R. A., 2087
Schultz, E. S., 2088–2114, (306–309, 757, 758, 1470, 2275–2278)
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Ward, N. (480)
Ware, W. M., (1976)
Wartenberg, H. 2419–2428
Wassermann, J., (1777)

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Weber, G. F., 2431–2433
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Werth, E., 2459–2461
Wessels, P. H., (504)
Weston, W. A. R. D., 2462–2464, (159)
Wetzel, K., (1944)
Wheeler, E. J., 2465–2467, (1509–1512, 1559)
Wheeler, H. E., 2468
Wheeler, H. J., 2469–2472
Whetzel, H. H., 2473
Whipple, O. B., 2474, 2475
Whitaker, W. C., (615)
White, N. H., (136)
White, P. R., 2476
White, R. P., 2477–2480
Whitehead, T., 2481–2492
Wiant, J. S., 2493, 2494
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Woodbury, G. W., (1196)
Wörle, (7)
Wormald, H., (1977–1979)
Wortley, E. J., 2511–2513, (1589, 1590)
Wortley, W. R. S., (1971)
Wright, R. C., (1702, 1855)
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Wyman, O. L., (755)

Yarwood, C. E., (790)
Yatzinina, C. N., 2515
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Young, P. A., 2517–2523, (1438)
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Appendix:

NAMES OF DISEASES AND OTHER DISORDERS OF POTATOES

Fungus and Bacterial Diseases

(Arranged according to common name, type of injury, or both.)

Anthracnose
  Colletotrichum atramentarium
?Anthracnose
  Gloeosporium sp.
Blackleg
  Erwinia phytophthora
BLIGHT
  early – *Alternaria solani*
  late – *Phytophthora infestans*
  shoot – *Botrytis cinerea*
  southern – *Sclerotium rolfsii* [ster. stage of *Pellicularia rolfsii*]
"Brown disease"
  Stysanus stemonitis
Canker
  Pellicularia filamentosa [perf. stage of *Rhizoctonia solani*]
  sprout – *Rhizoctonia solani*
?Canker
  Phoma sp.; possibly also *P. dulcamarina*, *P. eupyrena*, and *P. solanicola*
Leaf blotch
  Cercospora concors
  ?*C. solani*
Leaf spot
  Ascochyta lycopersici
Leak
  Pythium sp.; also *P. aphanidermatum*, *P. ultimum*, *P. arrhenomanes*, and *P. rostratum*
  Rhizopus spp., commonly *R. stolonifer* (*R. nigricans*)
  R. tritici
Lenticel spot
  Erwinia aroideae, *E. carotovora* [bacterial]
Mildew, powdery
  Erysiphe cichoracearum
  Oidium sp.
Rhizoctonose
  Pellicularia filamentosa [perf. stage of *Rhizoctonia solani*]
ROT(S)
  blue-mold
    Penicillium sp. [in part *P. oxalicum*]
  brown
    Pseudomonas solanacearum
  charcoal
    Macrophomina phaseoli [perf. stage of *Sclerotium bataticola*]
  dry
    Fusarium caeruleum
    F. sambucinum f. 6 (*F. discolor* var. *sulphureum*)
    F. trichothecioides
  ?dry
    Verticillium albo-atrum

- field
  - *Fusarium trichothecioides*
- jelly-end rot
  - *Fusarium solani* f. *radicicola* (*F. javanicum* var. *radicicola*)
- pink
  - *Phytophthora erythroseptica*
- pink-mold
  - *Trichothecium roseum*
- ring (bacterial)
  - *Corynebacterium sepedonicum*
- root
  - *Armillaria mellea*
  - *Phymatotrichum omnivorum*
  - violet root rot – *Rhizoctonia crocorum* [ster. stage of *Helicobasidium purpureum*]
- seed piece
  - *Bacterium polymorphum*
  - *Erwinia phytophthora*
  - *E. aroideae*
  - *E. carotovora*
    - when germination conditions are unfavorable
  - *Fusarium angustum*
  - *F. bulbigenum*
  - *F. conglutinans*
  - *F. orthoceras*, plus var. *longius*
  - *F. oxysporum* f. *batatas*
  - *F. redolens*
  - *F. vasinfectum* var. *lutulatum*
    - All forms of *F. oxysporum* sensu Snyder & Hansen.
- soft (slimy)
  - *Bacillus mesentericus*
  - *Erwinia aroideae*
  - *E. carotovora*
- speck
  - *Stysanus stemonitis*
- stem
  - *Erwinia phytophthora*
  - *Pellicularia filamentosa* [perf. stage of *Rhizoctonia solani*]
  - *Sclerotinia* sp.
  - *S. minor*
  - *S. sclerotiorum*
- stem end
  - *Fusarium solani* f. *radicicola* (*F. javanicum* var. *radicicola*)
- stem-end hard rot
  - *Phomopsis tuberivora*
- tuber
  - black rot of tubers: *F. solani* f. *radicicola* (*F. javanicum* var. *radicicola*)
  - *Alternaria solani*
  - *Armillaria mellea*
  - *Botrytis cinerea*
  - *Erwinia phytophthora*
  - *Fusarium angustum*
  - *F. bulbigenum*
  - *F. conglutinans*
  - *F. orthoceras*, plus var. *longius*
  - *F. oxysporum* f. *batatas*
  - *F. redolens*
  - *F. vasinfectum* var. *lutulatum*
    - All forms of *F. oxysporum* sensu Snyder & Hansen
  - *F. anguioides*
  - *F. arthrosporioides*
  - *F. culmorum*
  - *F. equiseti*, plus var. *bullatum*
  - *F. flocciferum*
  - *F. sambucinum*
  - *F. scirpi*, plus var. *acuminatum*
    - All forms of *F. roseum* sensu Snyder & Hansen
  - *F. argillaceum*
  - *F. dimerum*

        - *F. merismoides*
        - *F. moniliforme*
        - *F. solani*
        - *F. solani* var. *martii*
        - *F. solani* var. *striatum*
        - *F. poae*
        - *F. sporotrichioides*
        - *Phoma tuberosa*
        - *Phytophthora drechsleri*
        - *P. parasitica*
        - *Pythium arrhenomanes*
        - *P. ultimum*
        - *Xylaria apiculata*
    - tuber (secondary)
        - *Aspergillus niger*
        - *Clonostachys araucariae* var. *rosea* [poss. =*Gliocladium* (*roseum*)]
        - *Gliocladium* sp.
        - *Stysanus stemonitis*
    - watery
        - *Phytophthora erythroseptica*
        - *Pythium* sp., chiefly *P. debaryanum;* also *P. aphanidermatum, P. ultimum, P. arrhenomanes,* and *P. rostratum*
- Scab, common
    - *Streptomyces scabies*
- Scab, powdery
    - *Spongospora subterranea*
- Scurf, black
    - *Pellicularia filamentosa* [perf. stage of *Rhizoctonia solani*]
    - *Rhizoctonia solani*
- Scurf, silver
    - *Spondylocladium atrovirens*
- Skin spot
    - *Oospora pustulans*
- Stem disease
    - *Gloeosporium* sp.
    - *Nectria* spp. [associated with *Fusarium* and *Verticillium* spp. as ascigerous stages]
    - *Phoma* sp.
    - *Phomopsis* sp. [?*P. vexans*]
- Sten disease (on necrotic stems)
    - *Mycosphaerella solani*
    - *Septomyxa affinis*
- Stem girdle
    - *Botrytis cinerea*
- Tuber disease
    - *Neocosmospora vasinfecta*
- Tuber disease – following powdery scab
    - *Papulaspora coprophila*
- Tuber disease (on decaying tubers)
    - *Hypomyces ipomoeae* [as ascigerous stage of ?*Fusarium radicicola*]
    - *Verticillium cinnabarinum* [conidial stage of *Nectria inventa*]
- Tuber disease (on necrotic stems)
    - *Mycosphaerella solani*
- Tuber disease (on necrotic tubers)
    - *Ramularia solani*
    - *Septomyxa affinis*
- Vascular discoloration
    - *Fusarium angustum*
    - *F. bulbigenum*
    - *F. conglutinans*
    - *F. orthoceras,* plus var. *longius*
    - *F. oxysporum* f. *batatas*
    - *F. redolens*
    - *F. vasinfectum* var. *lutulatum*

    All forms of *F. oxysporum*

- Wart
  - *Synchytrium endobioticum*
- Wilt
  - *Fusarium avenaceum*
  - F. oxysporum, designated more precisely *F. euoxysporum* [*F. oxysporum* f. 1 or f. *tuberosi*]
  - *F. solani* var. *eumartii*
  - *F. trichothecioides*
  - *Phytophthora erythroseptica*
  - *Verticillium albo-atrum*
- Wilt (bacterial)
  - *Pseudomonas solanacearum*

Injurious Nematodes

Common name	*Scientific name*
Golden nematode; on roots	*Heterodera rostochiensis.*
Meadow nematode; on roots	*Pratylenchus pratensis.*
Meadow nematode, Cobb's meadow nematode; on tubers	*Pratylenchus penetrans.*
Potato rot nematode; causes tuber necrosis	*Ditylenchus destructor.*
Root-knot nematodes	*Meloidogyne* spp.

Nonparasitic and Miscellaneous Disorders

Plant defects

- Boron deficiency
- Giant hill
- Hopperburn
- Lightning injury
- Magnesium deficiency
- Manganese deficiency
- Potassium deficiency
- Tipburn
- Walnut toxicity

Skin defects

- Dimple skin
- "Elephant hide"
- Feathering
- Growth cracks
- Lenticel enlargement
- "Measles"
- Pitting
- "Ring spot" (cause unknown; on Chippewa var.)
- Scald
- Smooth skin (in Russet Burbank var.)
- Thumbnail cracks

Tissue defects

- Blackening after cooking
- Blackheart
- Flabbiness
- Frost necrosis
- Greening
- Heat necrosis
- Hollow heart
- Internal blackening
- Internal brown spot
- Spraing (see Internal brown spot)
- Stem-end browning
- Yellowing

Tuber or shape defects

Bottleneck
Dimple end
False nematode rot
Fasciation
Glassy end
Knobbiness – "second growth"
Pointed ends
Rough tubers
Sprout tubers
"Stitched end"

Miscellaneous

Disorder	*Cause*
Aerial tubers	Various causes: viruses, incl. current-season leafroll, latebreaking virus, and aster yellows virus; perhaps insect and mechanical injury to portions of lower stems.
Bird injury, "chink" damage	Pheasants, sagehens, chickens.
Checking	In part physiological/in part parasitic —cf. *Rhizoctonia*, *Spondylocladium*, and *Streptomyces*.
Hair sprout, spindle sprout	Various causes: viruses (leafroll or witches' broom) and physiological factors; ?adverse storage conditions.
Mahogany browning	Low-temperature injury.
Psyllid yellows	Insect injury.
Quack grass	*Agropyron repens* (L.) Beauv.
Red xylem	Bacteria; cause unknown.
Rodent injury	Rodents: rats, mice, and gophers.
Sprout tubers, "little potato," potatoes without tops.	Physiological—storage of seed tubers at above-optimum temperature and sprouting in dry, cold soil.

Foreign-Language Common Names[1]

Foreign-language name	*Scientific or English common name*
Aardappelcystenalltje	*Heterodera rostochiensis.*
Aardappelschurft	*Streptomyces scabies.*
Aardappelwratziekte	*Synchytrium endobioticum.*
Aardappelziekte	*Phytophthora infestans.*
Aardvlo	*Epitrix cucumeris* (flea beetle).
Afide	Aphid.
——— della patata	*Myzus pseudosolani.*
——— verde del pesco	*M. persicae.*
Agua quente	*Pseudomonas solanacearum.*
Aleurode del cavolo	*Trialeurodes vaporariorum* (greenhouse whitefly).
——— des serres	Do.

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[1] Not all names listed here are found in this publication. This list, a guide for current usage and information, was compiled from reprints, files, etc., of Potato Investigations; from a literature card file in Epidemiology Investigations, Crops Research Division, Beltsville, Md.; and from the following publications:

Heurn, F. C. van. 1949. WOORDENBOEK VAN PHYTOPATHOLOGISCHE UITDRUKKINGEN EN NAME. [DICTIONARY OF PHYTOPATHOLOGICAL EXPRESSIONS AND NAMES.] 158 pp. Boeijinga, Apeldoorn. [Dutch, English, and Latin.]

Kwizda, R. 1963. VOCABULARIUM NOCENTIUM FLORAE. [DICTIONARY OF PLANT PESTS AND DISEASES.] 4th ed., 128 pp. Springer Verlag, Wien. [German, Latin, Danish, English, French, Italian, Dutch, Russian, Swedish, and Spanish.]

Aleurodes de la col	Do.
Alternariaziekte	*Alternaria solani.*
Alternariose	Do.
Altiche, Altise	*Epitrix cucumeris* (flea beetle).
Andean disease	*Thecaphora solani.*
Anguilula de la remolacha	*Heterodera rostochiensis.*
——— dorada, ——— dorata	Do.
Anguilulosis	*Meloidogyne* spp.
Antracnosis	*Colletotrichum atramentarium.*
Aucubabont, aucubamosaik	Aucuba mosaic virus.
Bakterienringfäule	*Corynebacterium sepedonicum.*
Bangdi	*Pseudomonas solanacearum*
Bangle blight	Do.
Bebbia	*Erysiphe cichoracearum.*
Bexiga	*Streptomyces scabies.*
Bigarrure	Virus Y.
Bisciole	Wireworms.
Bladlöss, bladluizen, bladlus	Aphid(s).
Bladrol, bladrullevirus	Leafroll virus.
Blattläuse	Aphid.
Blattrollkrankheit	Leafroll virus.
(Het) Blauw	The blue; potassium deficiency.
Bostéla	*Rhizoctonia solani.*
Boterbloemluis	*Myzus pseudosolani.*
Botritis	*Botrytis cinerea.*
Brunröta	*Phytophthora infestans.*
Buba	*Thecaphora solani.*
Bukett	Rugose mosaic.
Bukettkrankheit	[?] Unmottled curly dwarf virus (str. spindle tuber virus).
Buntheit, Buntwerden	Internal brown spot.
Buri	*Rhizoctonia* spp.
Cancrena	variously *Phytophthora infestans* and *Erwinia* sp. [poss. *E. phytophthora*].
——— umida	*Erwinia* sp.
Cancro	*Synchytrium endobioticum.*
Cernáni stonku	*Erwinia phytophthora.*
Chancre du collet	*Fusarium oxysporum.*
——— du pied	*Rhizoctonia solani.*
Chwóscik	*Cercospora concors.*
Collerette	*Rhizoctonia solani*; poss. also as *Pellicularia filamentosa.*
Coloradobille, coloradokever	*Leptinotarsa decemlineata* (Colorado potato bettle).
Crtičavost	Virus Y (as streak).
Czarna Nózka	*Erwinia phytophthora.*
Degeneración, degenerescência, dégenérescence.	See, in the main, Leafroll virus and virus X; Degeneration, and Degeneration diseases.
Devi	*Meloidogyne* sp. [poss. *Heterodera rostochiensis*].
Doença do pus, ——— do sono	*Pseudomonas solanacearum.*
Doradillas	Wireworms.
Dorifora	*Leptinotarsa decemlineata* (Colorado potato beetle).
Dormidera	*Pseudomonas solanacearum.*
Dorrfleckenkrankheit	*Alternaria solani.*
Doryphore	*Leptinotarsa decemlineata* (Colorado potato beetle).
Drahtwurm	Wireworms.
Droogrot	*Fusarium* spp. (as dry rot).
Dürrfleckenkrankheit	*Alternaria solani.*

Eisenfleckigkeit	Internal brown spot.
Eki-byo	*Phytophthora infestans.*
ELATERIDAE	Wireworms.
Enrolement	Leafroll virus.
Erdflohkäfer	*Epitrix cucumeris.*
Escarabajo	*Leptinotarsa decemlineata* (Colorado potato beetle).
Esclerotiniosis	*Sclerotinia sclerotiorum.*

Ferretti	Wireworms.
Ferskenbladlus	*Myzus persicae.*
Filosité	Spindle, spindling sprout.
Filtsjuka	*Rhizoctonia solani.*
Fitoftora	*Phytophthora infestans.*
Frisolée	Crinkle and Rugose mosaic.
Fusariosis	*Fusarium oxysporum.*
Fusarium-verwelkingsziekte	Do.
Fussvermorschung	*Rhizoctonia solani*; poss. also as *Pellicularia filamentosa.*

Gale argentée	*Spondylocladium atrovirens.*
——— bacterienne	*Streptomyces scabies.*
——— noire	*Synchytrium endobioticum.*
——— ordinaire	*Streptomyces scabies.*
——— poudreuse	*Spongospora subterranea.*
——— profonde	Do.
——— rhizoctonienne	*Rhizoctonia solani.*
——— verrugueuse	*Synchytrium endobioticum.*
Gangrena	variously *Phytophthora infestans* and *Thecaphora solani.*
Gangrene humide	*Erwinia* sp.; poss also *E. phytophthora.*
Gewohnliche Schorf	*Streptomyces scabies.*
Gipfelrollen	*Leafroll virus.*
Gråmögel Gråskimmel Grauschimmel Grauwe schimmel meiziekte	*Botrytis cinerea.*
Groene perzikluis	*Myzus persicae.*

Hallimasch	*Armillaria mellea.*
HALTICINAE	*Epitrix cucumeris* (flea beetle).
Hielo	*Phytophthora infestans.*
Honingswam Honningsvamp Hunungsskivling	*Armillaria mellea.*

Ipocnose	*Rhizoctonia solani*; poss. also as *Pellicularia filamentosa.*

Jambe noire	*Erwinia phytophthora.*
Jordloppa	*Epitrix cucumeris* (flea beetle).

Kartoffel grindes	*Rhizoctonia solani.*
Kartoffelål, Kartoffelälchen	*Heterodera rostochiensis.*
Kartoffelbladpletsyge	*Alternaria solani.*
Kartoffelblattlaus (grünfleckige)	*Acyrthosiphon solani.*
Kartoffelbrok	*Synchytrium endobioticum.*
Kartoffelkäfer	*Leptinotarsa decemlineata* (Colorado potato beetle).
Kartoffelkrebs	*Synchytrium endobioticum.*
Kartoffelpulverschorf	*Spongospora subterranea.*
Kartoffelschorf	*Streptomyces scabies.*
Kartoffelskimmel	*Phytophthora infestans.*
Kartoffelskurv	*Streptomyces scabies.*
Kartoffelwelkekrankheit	*Fusarium oxysporum.*

Kartupelu	*Actinomyces aerugineus.*
Khokha	*Fusarium* (as dry rot).
Khuzali	*Spongospora subterranea.*
Knäpparlarv	Wireworms.
Knollenfäule	*Phytophthora infestans.*
Kohlmottenschildlaus	*Trialeurodes vaporariorum* (greenhouse whitefly).
Koloradobagge	*Leptinotarsa decemlineata* (Colorado potato beetle).
Koperworm	Wireworms.
Korenomorka bramborová	*Rhizoctonia solani.*
Koudriash	Witches' broom virus.
Krangerigheid, Kranzigheid	Internal brown spot.
Krankimmel	*Verticillium albo-atrum.*
Krauselkrankheit	*Verticillium albo-atrum.*
Krautfäule	*Phytophthora infestans.*
Kringerigheid	Internal brown spot.
Krinkel	Crinkle.
Lyspletsyge	Manganese deficiency.
Maculatura ferruginea	Internal brown spot.
Magnesiumgebrek	Magnesium deficiency.
Mal de secco	*Phytophthora infestans.*
Mal murcho	*Pseudomonas solanacearum.*
Maladie des collerettes	*Rhizoctonia solani.*
——— des manchettes	Do.
——— des pousses	Do.
——— du jaune	*Verticillium albo-atrum.*
——— tâches brune	*Alternaria solani.*
Mancha de la hoja	Do.
Marchaitimiento	*Pseudomonas solanacearum.*
Marchitez	*Fusarium oxysporum.*
Marciume	variously *Phytophthora infestans* and *Botrytis cinerea.*
——— nero	*Erwinia phytophthora.*
——— radicale	*Armillaria mellea.*
——— secco (dei tuberi)	*Fusarium oxysporum.*
Marmorering	Boron deficiency.
Mela	*Phytophthora infestans.*
Mildijö, Mildio, Mildiou, Mildiú	*Phytophthora infestans.*
Moho	*Botrytis cinerea.*
Mosaico común	Virus X.
——— rugoso	Crinkle.
——— simple	Virus X.
——— superbenigno	Virus A.
Muffa grigia dell' uva	*Botrytis cinerea.*
Murcha, murcha bacteriana, murchadeira.	*Pseudomonas solanacearum.*
Nebbia, Niebla	*Alternaria solani.*
Necrose das Nervuras	Virus Y.
Negrón	*Alternaria solani.*
Nématode des racines	*Heterodera rostochiensis.*
Nemátodo dorado	Do.
Parch zwykly	*Streptomyces scabies.*
Pegavost lisča	*Alternaria solani.*
Peronospora della patata	*Phytophthora infestans.*
Persikbladlus	*Myzus persicae.*
Pfirsichblattlaus, grüne	Do.
Pfropfenbildung	Internal brown spot.
Pidocchio	Aphid(s).
Pilzringfäule	*Verticillium albo-atrum.*

Pinta preta	*Alternaria solani.*
Plamenjača	*Phytophthora infestans.*
Plejesan	Do.
Plísen bramborová	Do.
Pockenkrankheit	*Rhizoctonia solani.*
Podredumbre de la uvas	*Botrytis cinerea.*
——— de la raíces	*Armillaria mellea.*
——— del tallo	*Rhizoctonia solani.*
——— húmeda	*Erwinia phytophthora.*
——— secca	*Fusarium solani.*
Poederschurft	*Spongospora subterranea.*
Potatisbladlus	*Acyrthosiphon solani.*
Potatisbladmögel	*Phytophthora infestans.*
Potatiskräfta	*Synchytrium endobioticum.*
Potatislål	*Heterodera rostochiensis.*
Potatisnematod	Do.
Pourridié des racines	*Armillaria mellea.*
Pourriture blanche	*Fusarium oxysporum.*
——— grise	*Botrytis cinerea.*
Puceron	Aphid(s).
——— de la pomme de terre	*Myzus pseudosolani.*
——— gris du pêcher	*M. persicae.*
Puici de terra	*Epitrix cucumeris* (flea beetle).
Pulgón verde de la patata	*Myzus pseudosolani.*
——— del melocotonero	*Myzus persicae.*
Pulgones	Aphids.
Pulguillas	*Epitrix cucumeris* (flea beetle).
Pulverschorf, pulverskorv, pulverskurv.	*Spongospora subterranea.*
Purpurni Vrsak	Purple-top wilt; see also Aster yellow virus.
Pus da batateira	*Pseudomonas solanacearum.*
Putrefacione delle radici	*Pythium debaryanum.*

Queima	*Phytophthora infestans.*

Rakovina brambor	*Synchytrium endobioticum.*
Rhizoctone noire	*Rhizoctonia solani.*
——— violette	*R. crocorum.*
Rhizoctonia-ziekte	*R. solani.*
Rhizoctoniose	Do.
Ringvuur	*Verticillium albo-atrum.*
Rizoctonia, Rizottoniosi	*Rhizoctonia solani.*
Rodhalsråd; Rodfiltsvamp	Do.
Rogna nera	*Synchytrium endobioticum.*
Roña commun	*Streptomyces scabies.*
——— pulverulenta	*Spongospora subterranea.*
Roya común	*Puccinia pittieriana.*
——— Peruana	*Aecidium cantensis.*
Ruzičasta Gnjiloča	*Phytophthora erythroseptica.*

Sarna comun	*Streptomyces scabies.*
——— prateada	*Spondylocladium atrovirens.*
——— pulverulenta	*Spongospora subterranea.*
——— verrugosa	*Synchytrium endobioticum.*
Scabbia	variously *Rhizoctonia solani*, *Rhizoctonia* sp., and *Streptomyces scabies.*
——— polverulenta	*Spongospora subterranea.*
Schimmel mehlthau	*Erysiphe cichoracearum.*
Schnellkäferlarve	Wireworms.
Schwarzbeinigkeit	*Erwinia phytophthora.*
Seccume primaverile	*Alternaria solani.*
Shashaki	Leafroll virus.
Shukuyo-byo	Rugose mosaic.

Silberflecken, Silbergrind	*Spondylocladium atrovirens.*
Slimskimmel	*Fusarium oxysporum.*
Smaelderlarve	Wireworms.
Sortbensyge	*Erwinia phytophthora.*
Spongosporiosi	*Spongospora subterranea.*
Stengelbont [Tobacco virus 5]	see Virus X.
Stjälkbakterios	*Erwinia phytophthora.*
Stockfleckigkeit	Stem mottle virus.
Suha plijesan	*Alternaria solani.*

Tache argentée	*Spondylocladium atrovirens.*
Tigna argentata	Do.
Tiña plateada	*Spondylocladium atrovirens.*
Tizón tardío	*Phytophthora infestans.*
Torbo	*Rosellinia* sp.
Torrfläcksjuka	*Alternaria solani.*
Tracheo-verticilliosi; traqueo-verticilosis.	*Verticillium albo-atrum.*
Tussennervig mosaiek	Virus X.

Vanlig potatisskorv	*Streptomyces scabies.*
Variole des tubercules	*Rhizoctonia solani.*
Veerkkerigheid	Stem mottle virus.
Verruga	*Synchytrium endobioticum.*
Verticilliose	*Verticillium albo-atrum.*
Violette Wurzeltöter	*Rhizoctonia violacea* [=*R. crocorum*].
Vira-cabeca	Top necrosis; =?virus X.
Viruela	variously *Alternaria solani* and *Rhizoctonia solani.*
Vissnesjuka	*Verticillium albo-atrum.*
Vrotpootje	*Pseudomonas solanacearum.*

Wagusare-byo	*Corynebacterium sepedonicum.*
Waterigheid	Glassy-end of potato; physiological.
Weissfäule	*Fusarium* spp.
Weisshosigkeit	*Rhizoctonia solani.*
Welkekrankheit	variously *Colletotrichum atramenttarium, Fusarium* spp., and *Verticillium albo-atrum.*
Witte vlieg	*Trialeurodes vaporariorum* (green house whitefly).
Wratziekte	*Synchytrium endobioticum.*
Wurzeltöter, Wurzeltöterkrankheit.	*Rhizoctonia solani.*

Zaraza ziemniaczana	*Phytophthora infestans.*
Zellenfäule	Do.
Zilverschurft	*Spondylocladium atrovirens.*
Zwartbenigheid	*Erwinia phytophthora.*

Virus Index: With Synonomy[2]

Acrogenus solani, see Spindle tuber virus
  A. solani var. *severus*, see Unmottled curly dwarf virus (str. of spindle tuber virus)
Acronecrosis virus, str. of virus X, q. v.
Acropetal necrosis virus, str. of virus Y, q. v.
Alfalfa mosaic virus, see Calico
Annulus dubius, see virus X
  A. dubius var. *annulus*, str. of virus X, q. v.
  A. dubius var. *flavus*, str. of virus X, q. v.
  A. dubius var. *obscurus*, str. of virus X, q. v.
Annulus tabaci, see Bouquet disease
Aureogenus vastans, see Yellow dwarf virus
  A. vastans var. *agalliae*, see Yellow dwarf virus
  A. vastans var. *lethale*, see Yellow dwarf virus
  A. vastans var. *vulgaris*, see Yellow dwarf virus

Beet curly top virus, see Curly top and Green dwarf
Blattrollkrankheit virus, see Leafroll virus

Callistephus virus 1A, str. [Late Breaking virus] of Aster yellows virus, q.v.
Canada streak virus, str. of Aucuba mosaic virus, q.v.
Carnation latent virus, see Paracrinkle virus
Carnation streak virus, str. of Aster yellow virus, q. v.
Celery yellows virus, str. [Late Breaking virus] of Aster yellows virus, q.v.
Chlorogenus callistephi var. *californicus*, str. [Late Breaking virus] of Aster yellows virus, q. v.
  C. solani, see Witches' broom virus
Chloropthora solani, see Witches' broom virus
Common mosaic virus, see Virus A
Corium solani, see Leafroll virus
Cucumber mosaic virus, potato veinbanding str., see virus Y

Di Vernon streak virus, see virus Y
Dwarf shrub virosis virus, str. of Witches' broom virus, q. v.

Foliar necrosis virus, str. of virus X, q. v.

Healthy potato virus, see virus X
Hyoscyamus virus II, see virus Y
Hyoscyamus virus IV, see virus X

Interveinal mosaic virus, see virus X; also see Interveinal mosaic virus and Leafrolling mosaic virus
Interveinal mosaic virus (with virus X), str. of Aucuba mosaic virus, q. v.
Interveinal necrosis virus, str. of virus X, q. v.

Late-breaking virus, str. of Aster yellows virus, q. v.
Latent mosaic, see Mottle
Latent virus, see virus X

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[2] Not all the viruses listed here are to be found in this publication. This list was compiled as a guide for current use and for information. Cf. also the following publications:

Smith, K. M. 1957. A TEXTBOOK OF PLANT VIRUS DISEASES. 2d ed., 652 pp. Little, Brown and Company, Boston.

The Commonwealth Mycological Institute. 1957. COMMON NAMES OF VIRUS DISEASES USED IN THE REVIEW OF APPLIED MYCOLOGY. Vol. 35, Supplement, issued August 1957. 78 pp. Kew, Surrey, England.

U.S. Agricultural Research Service. 1960. INDEX OF PLANT DISEASES IN THE UNITED STATES. U.S. Dept. Agr. Handb. 165, 531 pp. [See, in particular, virus listings under *Solanum tuberosum* L., pp. 457–461.]

Leaf curl, see Leafroll virus
Leaf drop streak virus, see virus Y
Leafroll virus strain 5, str. of Leafroll virus, q. v.
Lucerne mosaic virus (str.), see Tuber necrosis and Calico

Marginal leafroll virus, see Spindle tuber virus
Marmor angliae, see Paracrinkle virus
  M. aucuba, see Aucuba mosaic virus
  M. aucuba var. *canadense*, str. of Aucuba mosaic virus, q. v.
  M. cucumeris var. *upsilon*, see virus Y
  M. dubium var. *annulus*, str. of virus X, q. v.
  M. dubium var. *obscurum*, str. of virus X, q. v.
  M. dubium var. *vulgare*, str. of virus X, q. v.
  M. solani, see virus A
  M. upsilon, see virus Y
  M. vastans, see Yellow dwarf virus
  M. vastans var. *agalliae*, str. of Yellow dwarf virus, q. v.
  M. vastans var. *lethale*, str.of Yellow dwarf virus, q. v.
  M. vastans var. *vulgaris*, str. of Yellow dwarf virus, q. v.
Masked virus Aucklander short top potatoes, str. of virus X, q. v.
Mild mosaic, see Mottle, Veinal Mosaic, virus A, and virus X
Monocraat virus, str. of Aucuba mosaic virus, q. v.
Mottle virus, see virus X
  Mottle virus, masked mottle str., str. of virus X, q. v.
  Mottle virus, potato ring spot str., str. of virus X, q. v.
Murialba venatoenia, see virus Y

Necrose das Nervuras, see virus Y and as str. of Veinal Necrosis virus, q. v.
New Jersey yellow dwarf virus, str. of Yellow dwarf virus, q. v.
New York yellow dwarf virus, str. of Yellow dwarf virus, q. v.
Nicotiana virus 5, str. of Stem mottle virus, q. v.
Nicotiana virus 12, see Bouquet disease
Noninfectious chlorosis virus, see Aucuba mosaic virus

Phloem necrosis, phloem necrosis virus, see Leafroll virus
Phloem parenchyma necrosis virus, str. of Aucuba mosaic virus, q. v.
Potato virus B, C, etc.: see under the letter "V"
President streak virus, str. of virus X, q. v.
Pseudo-net-necrosis virus, str. of Aucuba mosaic virus, q. v.
Puerto Rican pepper virus, str. of virus Y, q. v.
Punctate necrosis and mottle virus, str. of virus X, q. v.
Purple-top wilt, purple-top wilt virus, see Aster yellows virus

Ring spot virus, see virus X
Rolling mosaic virus, see Leafrolling mosaic virus

Severe mosaic, severe mosaic virus, see virus Y and Veinbanding
Simple mosaic virus, see virus X
Solanum jasminoides virus, str. of virus Y, q. v.
Solanum virus alphaicum, see virus A
  ——— ——— annulosum, see virus X
  ——— ——— librimatiferum, see Leafroll virus
  ——— ——— parvathemus, see virus A
  ——— ——— rigidiformans, see Leafroll virus
  ——— ——— 1, see virus X
  ——— ——— 2, see virus Y
  ——— ——— 2 (var.), str. of virus Y, q. v.
  ——— ——— 3, see virus A
  ——— ——— 4, str. of virus X, q. v.
  ——— ——— 5, str. of virus Y, q. v.
  ——— ——— 6, str. of virus X, q. v.
  ——— ——— 7, see Paracrinkle virus
  ——— ——— 8, str. of Aucuba mosaic virus, q. v.
  ——— ——— 9, see Aucuba mosaic virus

——— ——— 11, see Leafrolling mosaic virus
——— ——— 12, see Spindle tuber virus
——— ——— 13, see Unmottled curly dwarf virus (str. of Spindle tuber virus)
——— ——— 14, see Leafroll virus
——— ——— 15, see Witches' broom virus
——— ——— 16, see Yellow dwarf virus
Spindling tuber virus, see Spindle tuber virus
Stipple streak virus, str. of virus Y, q. v.
Streakvirus, str. of Aucuba mosaic virus, q. v.; see also virus Y
Stunt virus, see Dwarf
Super-mild mosaic virus, see virus A

Tobacco partridge virus, str. of Stem mottle virus, q. v.
——— rattle virus, str. of Stem mottle virus, q. v.
——— ring spot virus, see Bouquet disease
——— spot necrosis virus, see virus Y
——— vein margin virus, see virus Y
——— vein necrosis virus, str. of virus Y, q. v.
——— veinal necrosis virus, str. of virus Y, q. v.
——— virus 4, see virus Y
——— virus 5, see virus X
——— virus 10, see Bouquet disease
——— Witches' broom virus, see Witches' broom virus
Tomato necrosis virus, str. of virus X, q. v.
——— Witches' broom virus, see Witches' broom virus
Top necrosis virus, str. of virus X, q. v.
Tuber blotch virus, str. of Aucuba mosaic virus, q. v.

Unmottled curly dwarf virus, see as such and also as str. of Spindle tuber virus
Up-to-Date streak virus, str. of virus X, q. v.

Veinal mosaic virus, see virus A
Veinbanding virus, see virus Y
(Potato) virus B, str. of virus X, q. v.
——— ——— C, str. of virus Y, q. v.
——— ——— D, str. of virus X, q. v.
——— ——— E, see Leafrolling mosaic virus and Paracrinkle virus
——— ——— F, str. of Aucuba mosaic virus, q. v.
——— ——— G, see Aucuba mosaic virus
——— ——— K, see Leafrolling mosaic virus
——— ——— P, see virus A
——— ——— X, plus A, see Crinkle
——— ——— X^D, str. of virus X, q. v.
——— ——— X^N, str. of virus X, q. v.
——— ——— Yr, see virus Y
——— ——— 1, see Leafroll virus
——— ——— 5, see Yellow dwarf virus
——— ——— 7, see Leafrolling mosaic virus and Paracrinkle virus
——— ——— 8, see Spindle tuber virus
——— ——— 9, see Unmottled curly dwarf virus; also as str. of Spindle tuber virus
——— ——— 11, see Witches' broom virus
——— ——— 16, see virus X
——— ——— 20, see virus Y

Western aster yellows virus, str. of Aster yellows virus, q. v.
Wilding or Semi-wilding virus, see Witches' broom virus

Yellow mottle virus, str. of virus X, q. v.

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